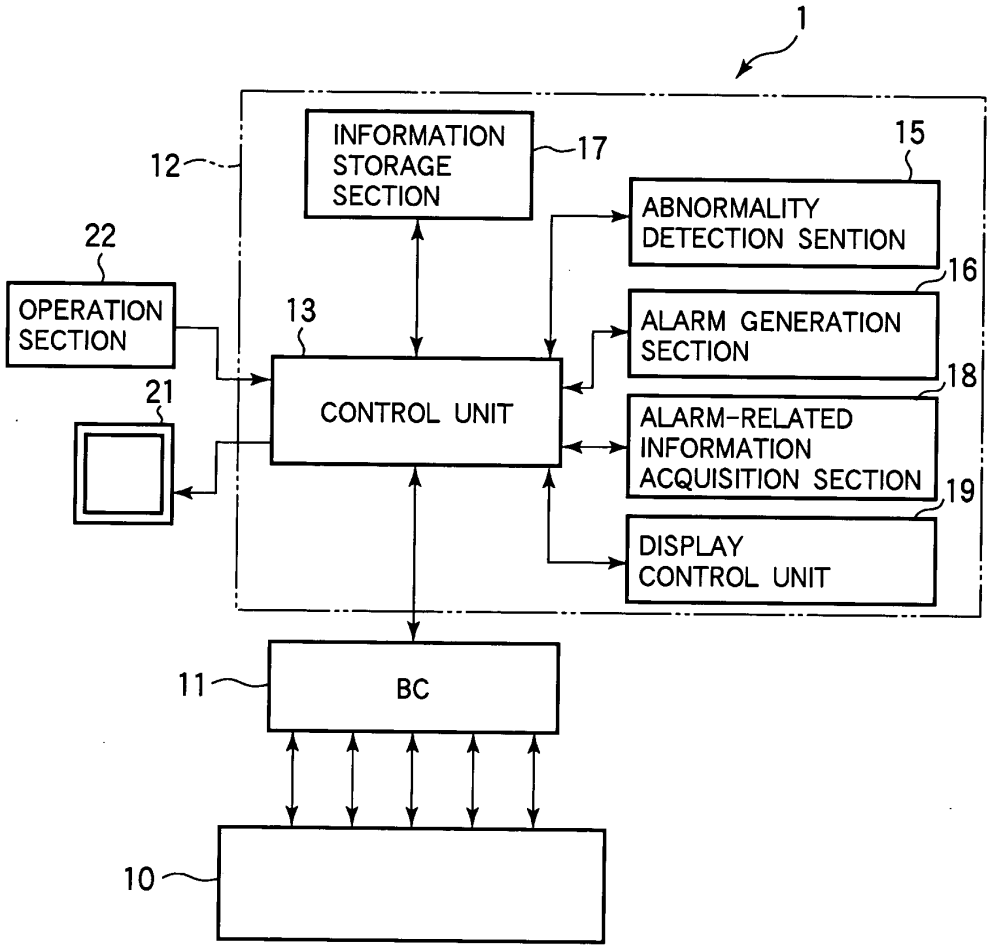
1
12
INFORMATION STORAGE SECTION
17
15
ABNORMALITY DETECTION SENTION
22
OPERATION SECTION
13
16
ALARM GENERATION SECTION
21
CONTROL UNIT
18
ALARM-RELATED INFORMATION ACQUISITION SECTION
19
DISPLAY CONTROL UNIT
11
BC
10

FIG.1

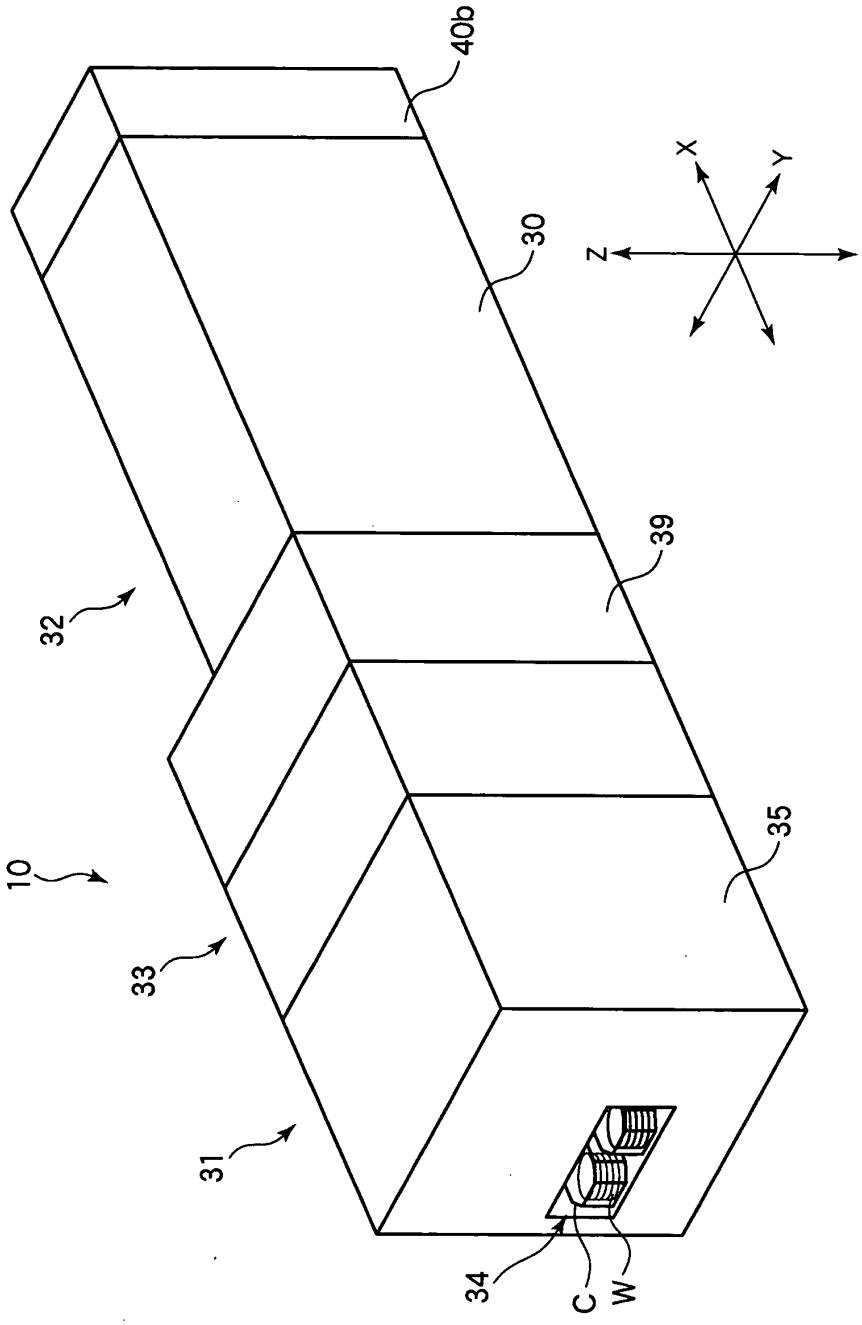

FIG.2

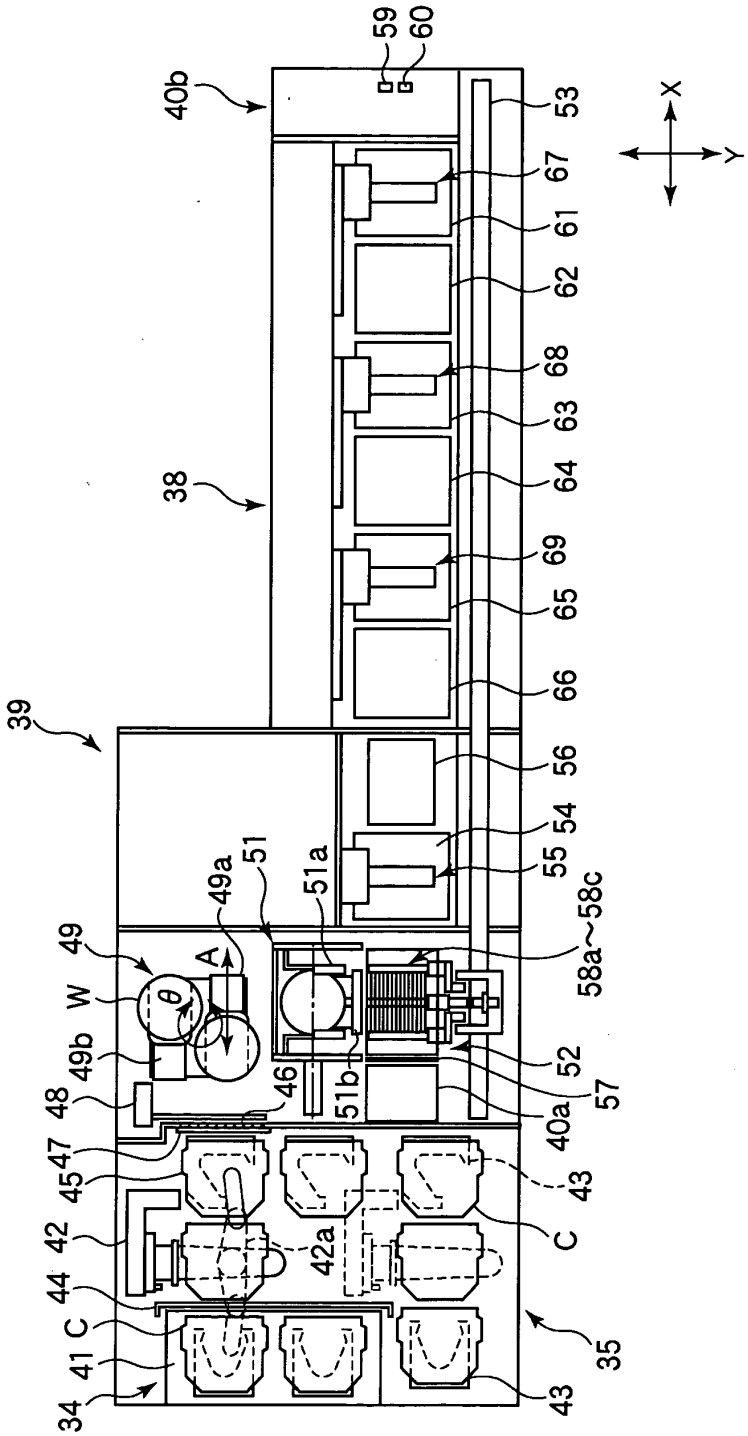
59
60
40b
53
X
Y
67
61
62
68
63
38
64
69
65
66
39
56
54
55
49a
51
51a
58a~58c
49
A
W
θ
49b
48
46
51b
52
57
40a
47
45
43
42
42a
C
44
C
41
34
35
43

FIG.3

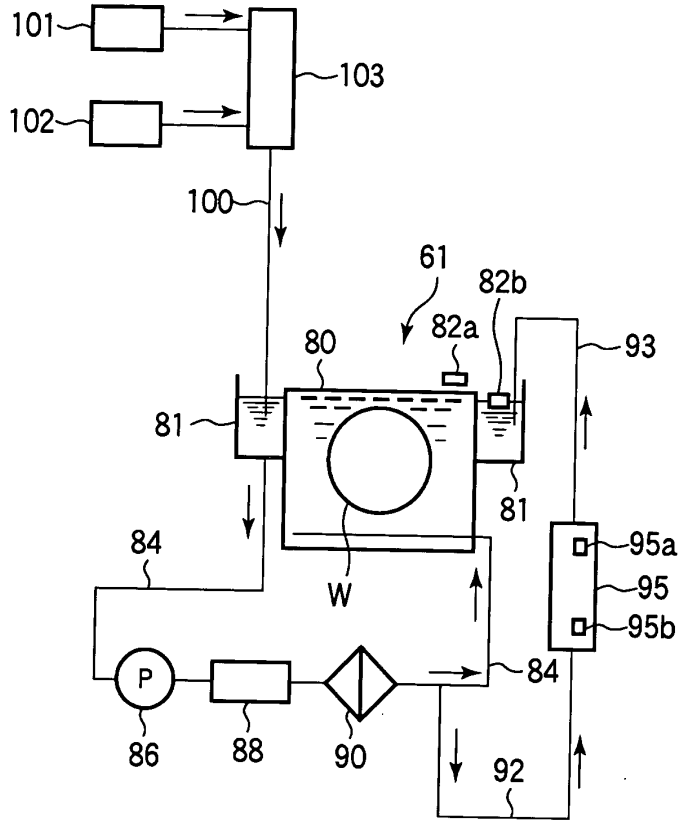
101
102
103
100
61
82b
82a
80
93
81
81
84
W
95a
95
95b
P
84
86
88
90
92

FIG.4

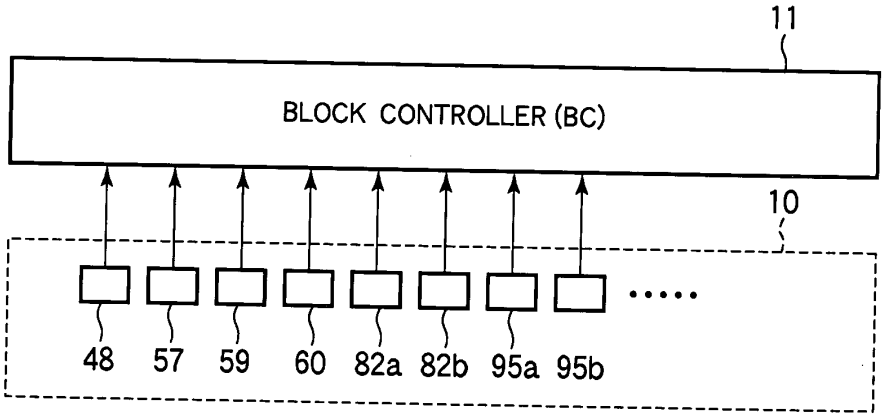
11
BLOCK CONTROLLER (BC)
10
48
57
59
60
82a
82b
95a
95b

FIG.5

ALARM ID	3071
CONTENTS	Chemical level in the bath is too low
DETAIL	Chemical-bath lower limit sensor is turened off during circulaion operation
REASON1	Circulation was execuled even though there was no liquid
REASON2	Lower sensor malfunction
REASON3	Liquid discharge value failed or chemical liquid bath broken
ACTION1	Press "retry" or "chemical exchange" after confirmation of the sensor position
ACTION2	Retry : Sensor is checked again
ACTION3	Chemincal exchanged : chemical exchanged is performed and alarm is canceled

FIG.6

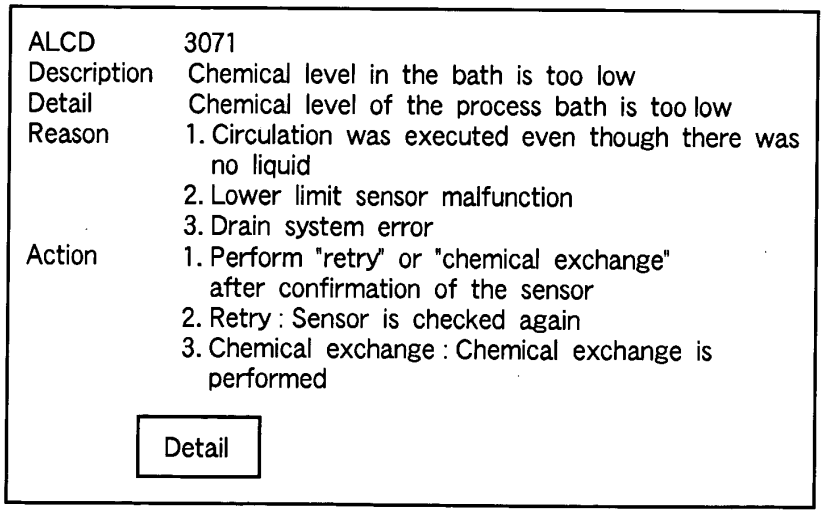

FIG.7

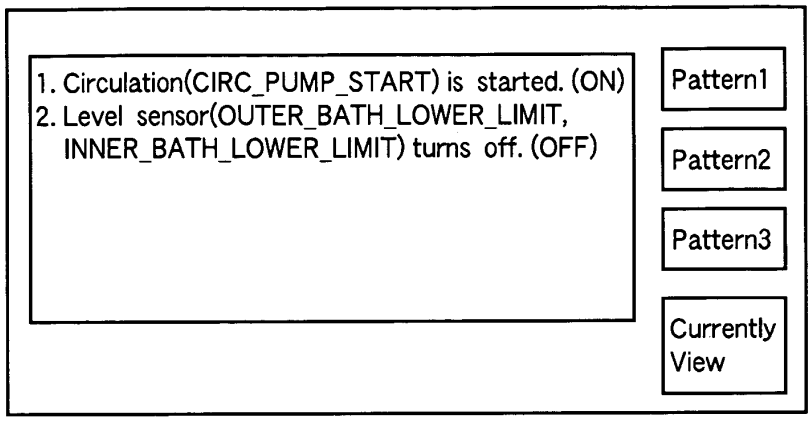
1. Circulation(CIRC_PUMP_START) is started. (ON)
2. Level sensor(OUTER_BATH_LOWER_LIMIT, INNER_BATH_LOWER_LIMIT) turns off. (OFF)
Pattern1
Pattern2
Pattern3
Currently View

FIG.8

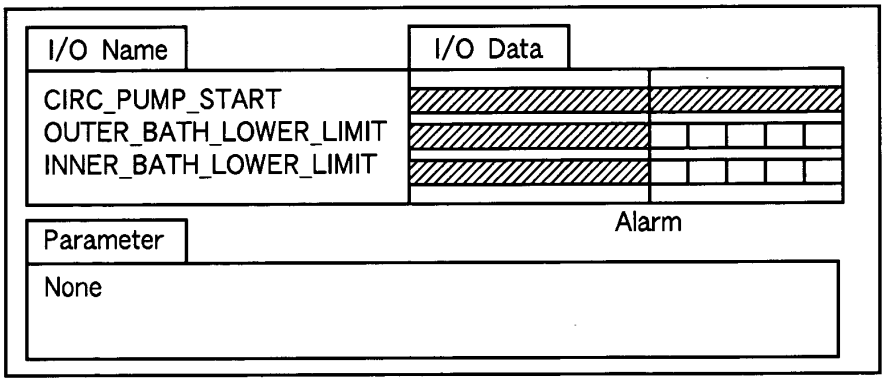
I/O Name
I/O Data
CIRC_PUMP_START
OUTER_BATH_LOWER_LIMIT
INNER_BATH_LOWER_LIMIT
Alarm
Parameter
None

FIG.9

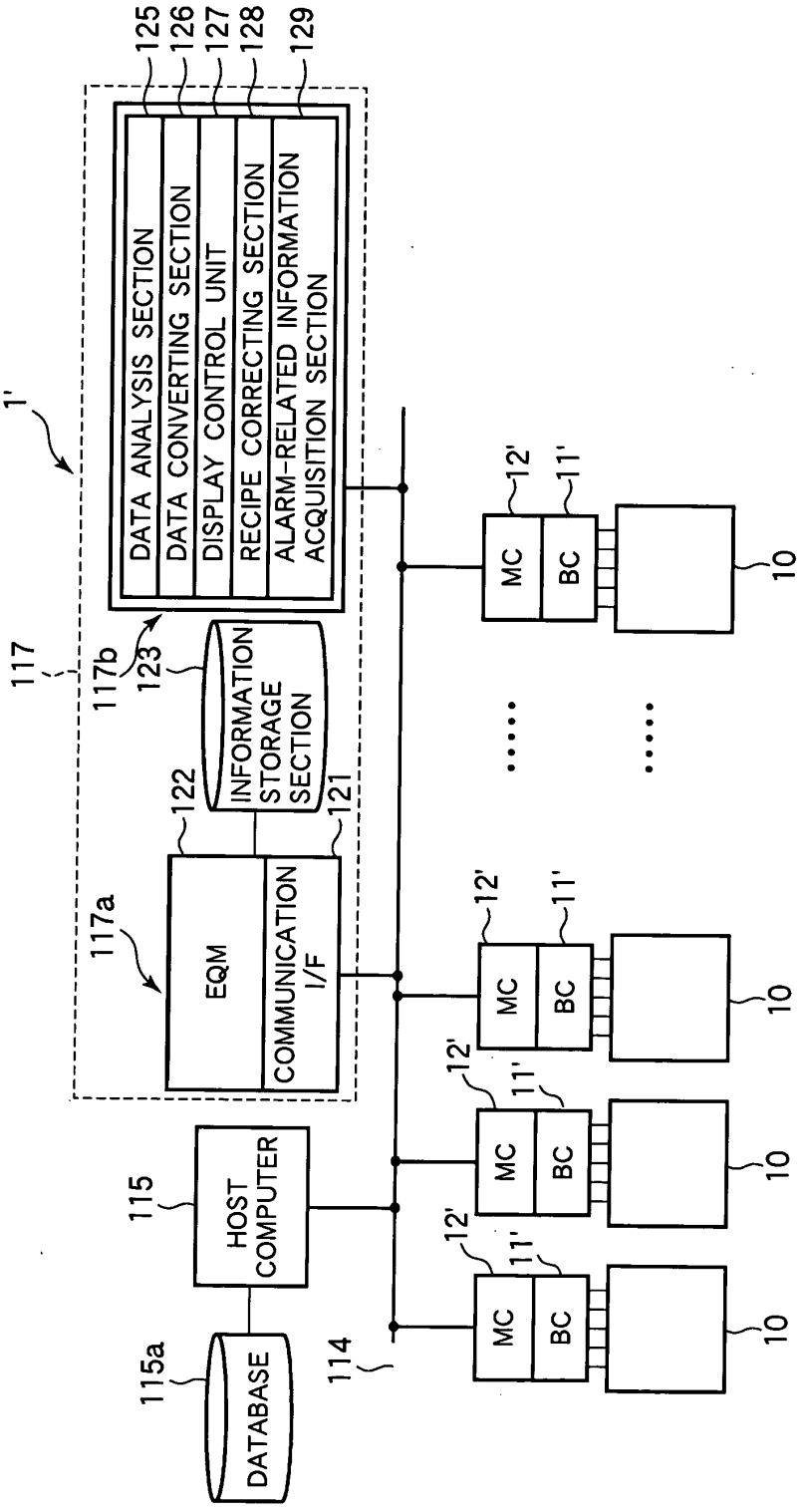
1'
117
117b
123
117a
125
126
127
128
129
DATA ANALYSIS SECTION
DATA CONVERTING SECTION
DISPLAY CONTROL UNIT
RECIPE CORRECTING SECTION
ALARM-RELATED INFORMATION ACQUISITION SECTION
INFORMATION STORAGE SECTION
122
121
EQM
COMMUNICATION I/F
115
HOST COMPUTER
115a
DATABASE
114
12'
11'
MC
BC
10

FIG.10

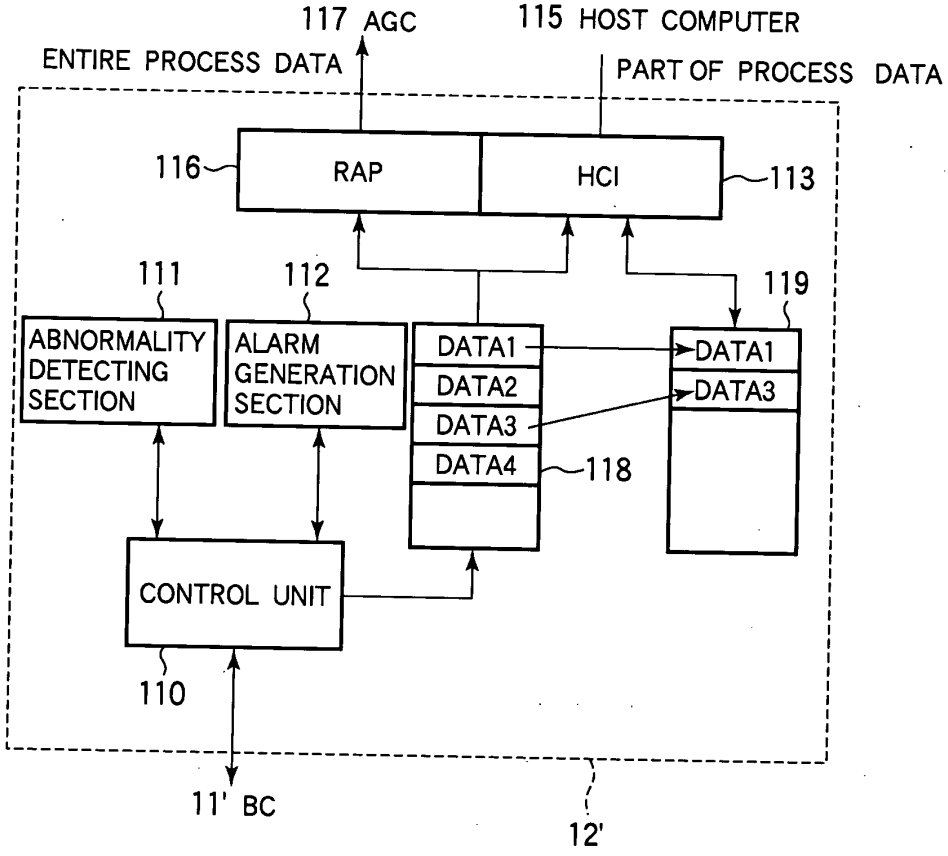
117 AGC
115 HOST COMPUTER
ENTIRE PROCESS DATA
PART OF PROCESS DATA
116
RAP
HCI
113
111
112
119
ABNORMALITY DETECTING SECTION
ALARM GENERATION SECTION
DATA1
DATA2
DATA3
DATA4
118
DATA1
DATA3
CONTROL UNIT
110
11' BC
12'

FIG.11